

March 16, 2009

Ms. Michele Pisterzi  
AT & T  
2427 Union Street  
Blue Island, IL 60406

EPA Region 5 Records Ctr.



323458

RE: Radiological Survey of Right-of-Way Utility Excavation  
Permit No.: 952967491  
Permit Address: Rear of 160 E. Illinois St. and Alley of 505 N. Michigan Ave.  
AECOM Project No. 00550351

Dear Ms. Pisterzi:

Pursuant to conditions specified in a permit (see attached) issued by the City of Chicago, radiation monitoring was required to be performed at the above referenced site. AECOM provided the required radiation surveillance from February 18 - 23, 2009 for the excavation of two pits to repair conduit breakdown in an alley behind 160 East Illinois Avenue and to the east of 505 North Michigan Avenue.

The excavation of the first pit began at the western end of the alley and measure approximately 4 by 8 feet with a depth of approximately 6 feet (see attached sketch). The excavation of the second pit was at the eastern end of the alley resulting in approximately the same horizontal dimensions as the first pit except with a depth of approximately 4 ½ to 5 feet.

Surveying was performed for the asphalt and soil removed for the excavation at the western end of the alley, and again for the excavation at the eastern end, adjacent to St. Clair Street. The monitoring revealed no indication of soils above the specified clean-up threshold established by the U. S. Environmental Protection Agency (USEPA) for the Streeterville area of Chicago. The USEPA threshold for Chicago is 7.1 picocuries per gram (pCi/g total radium (Ra-226 + Ra-228). Gamma radiation count measurements for the project were made using Ludlum Model 2221 survey meter and an unshielded 2 x 2 NaI probe (Model 44-10). For the instrumentation used, the gamma count indicative of the 7.1 pCi/g threshold was 19,065 counts per minute (cpm). The values within the excavation measured from about 6,800 cpm to about 14,400 cpm. Thus, there was no indication of an exceedance of the USEPA threshold.

Finally, as part of the permit conditions, this letter has been forwarded to:

Chicago Department of Environment  
Attention: Ms. Rahmat Begum  
30 North LaSalle Street, 25<sup>th</sup> Floor  
Chicago, Illinois 60602

Please contact us with any questions you have regarding this letter or the reported results.

Regards,

  
Jaclyn C. Webb  
Assistant Project Engineer

  
Steven C. Kornder, Ph.D.  
Senior Project Geoscientist

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cc: Rahmat Begum, Chicago Department of Environment  
Verneta Simon, USEPA

Attachments: Permit  
Sketch



**CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT  
FORM NO. DOE.ROW.01**

Notice is hereby given that the site you have requested information on is recorded with the City of Chicago Department of Environment as potentially having environmental contamination on the site and adjacent right-of-way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at the Department of Environment at 30 N. LaSalle St., 25th Floor, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday). Contact Rhamat Begum at (312) 744-3152 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued. Please note that for some locations, additional health and safety procedures may be required by law.

Please complete the following:

I have reviewed and understand the documents, maintained by the Department of Environment, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the Department of Environment within two (2) weeks of their completion. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Signature

Michele Gisterzi

Name (print)

Michele Pisterzi

Company

AT+T

Address

2427 Union St Blue Island, IL 60406

Phone No.

708 824-2817

Prime Contractor/Contact

Qualco

Address

PO Box 1840 Evanston IL 60204

Phone

773 542-1530

Safety Officer/Phone

STS Consultants - Steve Kornder

Radiation Contractor/

Phone (if applicable)

847-279-2448

Signed by Department of Environment

Date

Please return this completed form to the City of Chicago Department of Transportation at 30 N. LaSalle St., Room 1101, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday).

Revised Mar. 13, 2002



City of Chicago  
Richard M. Daley, Mayor

Department of Environment

Twenty-fifth Floor  
30 North LaSalle Street  
Chicago, Illinois 60602-2575  
(312) 744-7606 (Voice)  
(312) 744-6451 (FAX)  
(312) 744-3586 (TTY)

<http://www.cityofchicago.org>

Permit No.

952967491

Date

2/5/09

Site Address

3160 E ILLINOIS  
ALLEY)

505 N Michigan

Work Location (describe (ALLEY) detected, I will immediately contact the United States Environmental Protection

exact site location)

near 1600 E ILLINOIS

Alley) 505 N Michigan Av

Alley)

Nature of Work

dig (2) 5' x 10'

to repair

conduit breakdown



## Calculation Sheet

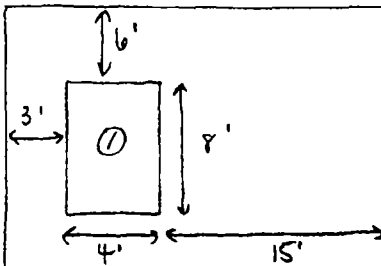
Project	AT&T Conduit Repair Excavation			Subject	Radiological Screening of Excavation		
Originated By	Date	Checked By	Date	AECOM Job No.	Scale	Sheet No.	
J. Neelan	3/11/09	S. Kurndur	3/12/09	00550-351	Not to Scale	1 of 1	

Dates of Monitoring:  
2/18/09 - 2/23/09

N. Michigan Avenue

①

0-18" = 9,200 cpm  
18-36" = 11,300 cpm  
36-54" = 13,600 cpm  
54-72" = 14,900 cpm



Ludlum Model 2221

\*1 Background Value  
of 7,500 cpm

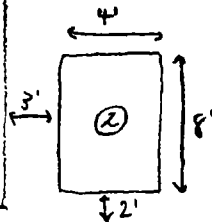
\*2 Background Value  
of 8,200 cpm

EPA threshold of 7.1 pci/g  
= 19,065 cpm  
unshielded.

Alley

②

0-18" = 6,800 cpm  
18-36" = 8,700 cpm  
36-54" = 10,200 cpm



Sidewalk



Sidewalk

N. St. Clair Street

Undeveloped Area

\*2

E. Illinois Street

E. Grand Avenue